**Purpose**: Demonstrate your understanding of the “Theory of Plate Tectonics”

and its relationship to “catastrophic events” – earthquakes or

volcanoes.

**Due Date**: February28, 2013 (Thursday)

**Products**: 1. Research notes (from computer lab/homework)

2. Poster **or** Labeled Model

3. Presentation notes

4. Presentation

***Note: Students choosing the “model” option, must prepare the model at home and the labels and presentation notes at school.***

**Timeline**: Feb. 19 – Computer Lab for research. Complete research notes.

Finish at home or community library.

Feb. 20 – In-class video (Research)

Feb. 25– In-class work on poster or labels.

Feb. 26 - In-class work on poster or labels.

Feb. 27 – In-class finish poster and begin work on presentation notes.

FINISH PROJECT AT HOME

Feb. 28 – Hand in finished projects and begin presentations.

**Assessment**: Research Notes 15 pts.

Poster or Model 50 pts.

Presentation Notes 15 pts.

Presentation - 20 pts.

1. Research notes from computer lab time. (15%)

References complete 5 pts.

Information complete 5 pts.

Neat 5 pts.

1. Poster or model. (50%)

Overall appearance 10 pts.

Titles & Labels 10 pts.

Content/Details 30 pts.

1. Presentation Notes (15%)

Complete 10 pts.

Conventions 5 pts.

1. Presentation (20%)

Voice and use of poster or model 5 pts.

Details/content 10 pts.

Organization 5 pts.

**Presentation Notes**

Introduction:

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Your Earthquake/Volcano:

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How they work:

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How plate tectonics relate:

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How they are measured:

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Conclusion:

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**Research Notes**

|  |  |
| --- | --- |
| Book/Website/Newspaper/Other | Information/Facts |
|  | Name |
|  | Location |
|  | Type/Size |
|  | Works/Cause |
|  | Affects |
|  | Facts |
|  | Other |

**Guiding Questions**

1. What is a “catastrophic geological” event?
2. Name the location of the specific volcano or fault you researched.
3. Name the continent where the volcano or fault is located.
4. What is a fault?
5. What type of volcano or fault is it?
6. Name the country where the volcano or fault is located.
7. Do people live near the volcano or fault?
8. How does a volcano or earthquake affect the Earth’s crust?
9. How does a volcano or earthquake affect the weather?
10. How does a volcano or earthquake affect agriculture?
11. How does a volcano or earthquakes affect buildings?
12. How does a volcano or earthquake affect animals?
13. What are tectonic plates?
14. How are tectonic plates related to a volcano or earthquake?
15. What technology do scientists use to measure or monitor

volcanoes or earthquakes?

1. How does the rock cycle relate to volcanoes and earthquakes?